

Generation 0: Los Gatos Prototypes

theme: proof of concept
chipset: Agnus, Daphne, Portia
application: black boxes

Generation 1a: Amiga Chipset

theme: production
chipset: Agnus, Denise, Paula
application: A1000, A2500

Generation 1b: Fat Agnus

theme: cost reduction
chipset: Fat Agnus, Denise, Paula
application: A500, A2000, Game Machine

Generation 2a: Hires Chipset

theme: productivity (31 Khz monochrome)
chipset: Agnus HR, Denise HR, Paula
application: oops

Generation 2b: ECS Chipset

theme: productity (31 KHz color)
chipset: ECS Agnus, ECS Denise, Paula
application: A500, A2000 (Agnus only); A3000; A300, A500+

Generation 3a: AA Chipset

theme: 256 color / 31 KHz performance
chipset: Alice, Lisa/Kelly, Paula
application: A3000+, A1000+ (Fat Alice))

Generation 3b: Revisited Chipset (full AA)

theme: chunky Pixels, true Color, ...
chipset: Agnus-RV, Denise-RV, Paula(-RV?)
application: A300+, A500++, A1000++, ?

Generation 4: CMOS / Laptop Chipset

theme: blitter performance, CMOS/low power
chipset: CMOS Agnus, Denise-RV, Paula-RV
application: Laptop/Palmtop, low end, ?

Systems High-End Roadmap

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Generation 1: AAA Chipset

theme: performance / features
chipset: AAA
application: A3000+, A4000, ...

Generation 1: AAA Jr. Chipset

theme: cost reduction - 16/32 bit environment
chipset: AAA Jr.
application: low end ???

Systems Low End Key Features

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Generation 0-1 Key Features:

- basic Amiga chipset
- NTSC/PAL compatible video
- 32/4096 color (1-5 bitplane) + HAM
- 640/200, 640/400 interlace video formats
- integrated dumb serial port
- integrated 880 KB floppy support

Generation 2 Key Features:

- programmable video formats
- 640/480 non-interlaced video format
- 4/64 color (1-2 bitplane) non-interlace video
- video / genlock enhancements

Generation 3a Key Features:

- 256/16M color (1-8 bitplanes) + 8-bit HAM
- 640/480 non-interlace performance improvement
- 32/64-bit sprites
- scan doubling/de-interlace support

Generation 3b Key Features:

- 4/8 bit chunky pixels
- IBM/Atari video format compatibility
- new "HAM" modes - additive / interpolation?
- extended fetch modes for Paula DMA
- repetitive/recycling sprites
- 16/32-bit bridge function (integration)
- built-in video DAC's (integration)

Generation 3 (Fat Alice) Key Features:

- 16/32-bit CPU Interface
- direct 16/32-bit chip memory interface
- general purpose DMA channel (SCSI/CD-ROM/2.5" FDD)
- "Fast RAM" support ????
- External DMA support ????

Generation 3 (Fat Paula) Key Features:

- 1.44 MB floppy support
- internal MFM decode ??? (4MB floppy)
- CD Audio (16-bit/44 KHz/2-channel)
- enhanced serial port (FIFO, HDLC????)
- CD-XA ADPCM audio playback ???
- external "CD Player" oversampling audio DAC
- audio input ????

Generation 4 Key Features:

- 32/64 bit blitter fetch modes (performance)
- enhanced copper (block move, 32/64 bit fetch)
- second copper to drive blitter

Poorly Defined / Floating Features:

- compressed video (YUV) playback
- video input / processing
- networking support
- interactive video ????

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